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- 1 [Improving performance by branch reordering](#)
- Minghui Yang, Gang-Ryung Uh, David B. Whalley
- May 1998 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1998 conference on Programming language design and implementation PLDI '98**, Volume 33 Issue 5
- Publisher: ACM Press

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Minghui Yang, Gang-Ryung Uh, David B. Whalley

November 2002 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 24 Issue 6

Publisher: ACM Press

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The conditional branch has long been considered an expensive operation. The relative cost of conditional branches has increased as recently designed machines are now relying on deeper pipelines and higher multiple issue. Reducing the number of conditional branches executed often results in a substantial performance benefit. This paper describes a code-improving transformation to reorder sequences of conditional branches that compare a common variable to constants. The goal is to obtain an orderi ...

**Keywords:** Conditional branches, branch reordering, profiling

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Karthik Sundaramoorthy, Zach Purser, Eric Rotenburg

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out of order; reorder to return the instructions ... Each checkpoint buffer entry has a counter to ... to satisfy branch misprediction, precise except ...  
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You also have it evaluating multiple if statements, when it really could go into a single (somewhat extended) if-then-else if statement ...  
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2.1 Conditional Statements. 2.1.1 IF/THEN/ELSE/END; 2.1.2 IFT/IFTE ... THEN "Beta"  
**ELSE IF DUP "G" == THEN "Gamma" ELSE "Unknown letter" END END END SWAP ...**  
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Like other programming languages it has variables and flow control **statements** (e.g. if-then-else, while, for, goto). In Unix there are several shells that ...  
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For example, consider the following script file, say named Swap:. #! /bin/csh -f ... **then-else**, while), iterative execution (for loop), a switch **statement**, ...  
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### Content-Type: text/plain; charset=us-ascii Content-Language: en ...

2+ DUP @ BEGIN ?DUP WHILE DUP @ HERE ROT ! REPEAT HERE SWAP ! ; : CHAIN  
 ( n - a ) FIND LENGTH 0< IF @ ELSE DUP @ HERE ROT ! THEN ; : STATEMENT ( n -- )  
 HERE ...  
[www.nicholson.com/rhn/files/Tiny\\_BASIC\\_in\\_Forth.txt](http://www.nicholson.com/rhn/files/Tiny_BASIC_in_Forth.txt) - 7k - [Cached](#) - [Similar pages](#)

### Section 5

The critical element here is the **THEN statement**. ... FLOOR "Average = " OVER +  
 MSGBOX IF DUP 200 < THEN 200 SWAP - .8 \* FLOOR ELSE DROP 0 END "New  
 handicap ...  
[www.thiel.edu/mathproject/ITPHPC/Section5/Section5.htm](http://www.thiel.edu/mathproject/ITPHPC/Section5/Section5.htm) - 17k - [Cached](#) - [Similar pages](#)

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Code blocks are also used within if/else statements if multiple **statements** ... code block, if  
**then else**, for loop, syntax check, indent code, check equals ...  
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2. if b is less than a, swap a and b. 3. if c is less than b ... Boolean. Expression. Then  
**Statement. Else Statement.** The rest of the program ...  
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